

Group Art Unit: 2154

Examiner: Not Yet Assigned

PATENT Customer No. 22,852 Attorney Docket No. 06502.0062-02

JUN 2 1 2002

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Peter C. Jones et al.

Application No.: 09/891,178

Filed: August 3, 2001

For:

**DEFERRED RECONSTRUCTION** 

OF OBJECTS AND REMOTE

LOADING FOR EVENT NOTIFICATION IN A

DISTRIBUTED SYSTEM

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**Technology Center 2100** 

Commissioner for Patents Washington, DC 20231

Sir:

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents, including any copending patent applications, are attached.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

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Customer No. 22,852 Attorney Docket No. 06502.0062-02

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & QUNNER, L.L.P.

Dated: June  $\underline{\mathcal{U}}$ , 2002

Jeffrey A. Berkowitz

Reg. No. 36,743

FINNEGAN HENDERSON FARABOW GARRETT& DUNNER LLP

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Atty. Docket No.: 06502 0062-02000

Application No.: 09/891,178

Applicant: Peter C. JONES et al.

Filing Date: August 3, 2001

Group Art Unit: 2154

#### **U.S. PATENT DOCUMENTS**

Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	US4,430,699	2/7/1984	Segarra et al.			
	US4,558,413	12/10/1985	Schmidt et al.			
	US5,392,280	2/21/1995	Zheng			
	US5,758,344	5/26/1998	Prasad et al.			
	US5,784,560	7/21/1998	Kingdon et al.			
	US5,805,805	9/8/1998	Civanlar et al.			
	US5,845,090	12/1/1998	Collins, III et al.			
	US5,913,029	6/15/1999	Shostak	D	ECE	11/10
	US5,933,647	8/3/1999	Aronberg et al.	T.	LOE	IVED.
	US5,949,998	9/7/1999	Fowlow et al.		JUN 2	4 2002
	US5,951,652	9/14/1999	Ingrassia, Jr. et al.			
	US5,963,947	10/5/1999	Ford et al.	100	inology i	Center 2100
	US5,974,201	10/26/1999	Chang et al.			
	US5,978,484	11/2/1999	Apperson et al.			
	US5,982,773	11/9/1999	Nishimura et al.			
	US5,999,988	12/7/1999	Pelegri-Llopart et al.			
	US6,016,516	1/18/2000	Horikiri			
	US6,023,586	2/8/2000	Gaisford et al.			
	US6,032,151	2/29/2000	Arnold et al.			

Examiner	Date Considered:

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Atty. Docket No.: 06502.0062-02000 Application No.: 09/891,178

Applicant: Peter C. JONES et al.

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Filing Date: August 3, 2001 Group Art Unit: 2154

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	US6,044,381	3/28/2000	Boothby et al.			
	US6,052,761	4/18/2000	Hornung et al.			
	US6,058,383	5/2/2000	Narasimhalu et al.			
	US6,067,575	5/23/2000	McManis et al.			
	US6,085,255	7/4/2000	Vincent et al.			
	US6,108,346	8/22/2000	Doucette et al.		_	
	US6,134,603	10/17/2000	Jones et al.			
	.US6,182,083 B1	1/30/2001	Scheifler et al.			
	US6,185,602	2/6/2001	Bayrakeri	R	IECE	FIVED.
	US6,185,611	2/6/2001	Waldo et al.			4 2002
	US6,199,116 B1	3/6/2001	May et al.		1	
	US6,216,138	4/10/2001	Wells et al.	Tec	hnology	Center 2100
	US6,226,746	5/1/2001	Scheifler			
	US6,247,091	6/12/2001	Lovett			
	US6,282,295	8/28/2001	Young et al.			
	US6,282,568	8/28/2001	Sondur et al.			
	US6,339,783 B1	1/15/2002	Horikiri			

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# O 1 P E INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

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Atty. Docket No.: 06502.062-02000

Application No.: 09/891,178

Applicant: Peter C. JONES et al.

Filing Date: August 3, 2001

Group Art Unit: 2154

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		FORE	IGN PATENT	DOCUMENTS	Tec	hnology	Center 2100
Examiner Initial*		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	T	Eden Project Proposal," De echnical Report #80-10-01,	cover and For	reword.			
	Alexander et al., "Active Bridging," Proceedings of the ACM/SIGCOMM'97 Conference, Cannes, France, September 1997						
	Almes et al., "Edmas: A Locally Distributed Mail System," Department of Computer Science, University of Washington, Technical Report 83-07-01, July 7, 1983, Abstract & pp. 1-17.						
	Almes et al., "Research in Integrated Distributed Computing," Department of Computer Science, University of Washington, Oct. 1979, pp. 1-42.						
	Almes et al., "The Eden System: A Technical Review," Department of Computer Science, University of Washington, Technical Report 83-10-05, Oct. 1983, pp. 1-25.						
	Almes, "Integration and Distribution in the Eden System," Department of Computer Science, University of Washington, Technical Report 83-01-02, Jan. 19, 1983, pp. 1-18 & Abstract.						
	Almes, "The Evolution of the Eden Invocation Mechanism," Department of Computer Science, University of Washington, Technical Report 83-01-03, Jan. 19, 1983, pp. 1-14 & Abstract.						
	Anderson et al., "Persistent Linda: Linda + Transactions + Query Processing," Proceedings of the 13th Symposium on Fault Tolerant Systems, pp. 93-109, 1991						
	Anonymous, "Change-Notification Service for Shared Files," IBM Technical Disclosure Bulletin, Vol. 36, No. 8, pages 77-82, XP002108713, New York, US, August 1993						
	Anonymous, "Resource Preemption for Priority Scheduling," IBM TECHNICAL DISCLOSURE BULLETIN, vol. 16, no. 6, page 1931, XP002109435 New York, US, November 1973						
		Arnold, Ken, "The Jini Archite Proceedings of the 36th ACM					
		Beech et al., "Object Databas nterfaces, Vol. 13, Nos. 1/3,				es," Com	outer Standards &
	Е	Begole et al., "Transparent S	haring of Java	Applets: A Replicated	d Approac	h," 10/19	97, pp. 55-65.

Examiner	Date Considered:
*Examiner: Initial if reference considered, whether or not citation if not in conformance and not considered. Include cop	
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### INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Atty. Docket No.: 06502:0063-02000

Application No.: 09/891,178

Applicant: Peter C. JONES et al.

Filing Date: August 3, 2001

Group Art Unit: 2154

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	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Bertino et al., "Object-Oriented Database Management Systems: Concepts and Issues," Computer, Vol. 24, No. 4, pp. 33-47, Los Alamitos, CA, April 1991
	Betz et al., "Interoperable Objects: Laying the Foundation for Distributed Object Computing," Dr. Dobb's Journal, Vol. 19, No. 11, page 18(13), October 1994
	Bevan et al., "An Efficient Reference Counting Solution To The Distributed Garbage Collection Problem," Parallel Computing, NL, Elsevier Science Publishers, Amsterdam, Vol. 9, No. 2, pages 179-192, January 1989
	Birrell et al., "Distributed Garbage Collection for Network Objects," Digital Systems Research Center, No. 116, pages 1-18, December 15, 1993
	Birrell et al., "Grapevine: An Exercise in Distributed Computing," Communications of the ACM, Vol. 25, No. 4, pp. 260-274, April 1982
	Birrell et al., "Implementing Remote Procedure Calls," ACM Transactions on Computer Systems, Vol. 2, No. 1, pp. 39-59, February 1984
	Birrell et al., "Network Objects," DEC SRC Research Report 115, February 28, 1994
	Birrell et al., "Network Objects," Operating Systems Review, 27(5), pp. 217-230, December 1993
	Black et al., "A Language for Distributed Programming," Department of Computer Science, University of Washington, Technical Report 86-02-03, Feb. 1986, p. 10.
	Black et al., "Distribution and Abstract Types in Emerald," University of Washington, Technical Report No. 85-08-05, August 1985, pp. 1-10.
<u> </u>	Black et al., "Object Structure in the Emerald System," University of Washington, Technical Report 86-04-03, April 1986, pp. 1-14.
	Black et al., "The Eden Project: A Final Report," Department of Computer Science, University of Washington, Technical Report 86-11-01, Nov. 1986, pp. 1-28.
	Black, "Supporting Distributed Applications: Experience with Eden," Department of Computer Science, University of Washington, Technical Report 85-03-02, March 1985, pp. 1-21.
	Black, "The Eden Programming Language," Department of Computer Science, FR-35, University of Washington, Technical Report 85-09-01, Sept. 1985 (Revised Dec. 1985), pp. 1-19.
	Black, "The Eden Project: Overview and Experiences," Department of Computer Science, University of Washington, EUUG, Autumn '86 Conference Proceedings, Manchester, UK, Sept. 22-25, 1986, pp. 177-189.
	Braine et al., "Object-Flow," 1997, pp. 418-419

Examiner	Date Considered:
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw lir if not in conformance and not considered. Include copy of this form with next communication to a	
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## INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Atty. Docket No.: 08502.0062-02006

Application No.: 09/891,178RECEN/ED

Applicant: Peter C. JONES et al

JUN 2 4 2002

Filing Date: August 3, 2001

Group Art Unit: 2154

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Burns et al., "An Analytical Study of Opportunistic Lease Renewal," "Distributed Computing Systems, 21st International Conference, pp. 146-153, April 2000.
Cannon et al., "Adding Fault-Tolerant Transaction Processing to LINDA," Software-Practice and Experience, Vol. 24(5), pp. 449-466, May 1994
Cardelli, "Obliq, A Lightweight Language For Network Objects," Digital SRC, pp. 1-37, November 5, 1993
Ciancarini et al., "Coordinating Distributed Applets with Shade/Java," 2/1998, pp. 130-138.
Delcambre et al., "Simulation of the Object Flow Model: A Conceptual Modeling Language for Object- Driven Applications," 1993, pp. 216-225.
Goldberg et al., "Smalltalk-80 - The Language and its Implementation," Xerox Palo Alto Research Center, 1983 (reprinted with corrections, July 1985), pp. 1-720.
Holman et al., "The Eden Shared Calendar System," Department of Computer Science, FR-35, University of Washington, Technical Report 85-05-02, June 22, 1985, pp. 1-14.
Hsu, "Reimplementing Remote Procedure Calls," University of Washington, Thesis, March 22, 1985, pp. 1-106.
Hutchinson, "Emerald: An Object-Based Language for Distributed Programming," a Dissertation, University of Washington, 1987, pp. 1-107.
Jacob, "The Use of Distributed Objects and Dynamic Interfaces in a Wide-Area Transaction Environment," SIGCOMMn '95 Workshop on Middleware: Cambridge, Mass., Aug. 1995, pp. 1-3.
Jul et al., "Fine-Grained Mobility in the Emerald System," University of Washington, ACM Transactions on Computer Systems, Vol. 6, No. 1, Feb. 1988, pp. 109-133.
Jul, "Object Mobility in a Distributed Object-Oriented System," a Dissertation, University of Washington, 1989, pp. 1-154 (1 page Vita).
Koshizuka et al., "Window Real-Objects: A Distributed Shared Memory for Distributed Implementation of GUI Applications," 11/1993, pp. 237-247.
Lavana et al., "Executable Workflows: A Paradigm for Collaborative Design on the Internet," 6/1997, 6 pages.
Proceedings of the Eighth Symposium on Operating Systems Principles, December 14-16, 1981, ACM, Special Interest Group on Operating Systems, Association for Computing Machinery, Vol. 15, No. 5, Dec. 1981, ACM Order No. 534810.
Proudfoot, "Replects: Data Replication in the Eden System," Department of Computer Science, University of Washington, Technical Report No. TR-85-12-04, Dec. 1985, pp. 1-156.

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Atty. Docket No.: 065020662.02000 Application No.: 09/891,178

Applicant: Peter C. JONES et al.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Pu, "Replication and Nested Transaction in the Eden Distributed System," Doctoral Dissertation, University of Washington, August 6, 1986, pp. 1-179 (1 page Vita).
 Trehan et al., "Toolkit for Shared Hypermedia on a Distributed Object Oriented Architecture," 1993, pp. 1-8.

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	red, whether or not citation is in conformance with MPEP 609; draw line through citation of considered. Include copy of this form with next communication to applicant.
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